Claims

1. A method for mutagenesis of a gene, which comprises introducing much more point mutations into one strand of double-stranded genomic DNA of cell or organism individual than into another strand.

2. The method according to claim 1, wherein the point mutations are randomly introduced into four kinds of bases.

3. The method according to claim 1 ~~or 2,~~ wherein the cell or the organism individual is mutant cell strain or mutant organism individual having mutator gene in a mutation repair gene group.

4. The method mutation according to claim 3, wherein the mutator gene is one or more mutator genes selected from a group consisting of dnaQ, dnaE, mutL, mutS, mutH, uvrD and dam.

5. The method according to claim 3 ~~or 4,~~ wherein the mutator gene is a gene which causes a defect of mutation repair mechanism under a certain condition.

6. The method according to claim 5, wherein the condition for the defect of the mutation repair mechanism is a certain

temperature.

7. The method according to claim 5 ~~or 6~~, wherein a step of introduction of mutation into genomic DNA under a certain condition and a step of selection of mutant under a selection load condition without introduction of mutation are repeated.

8. The method according to claim 7, wherein the step of introduction of mutation at the second time and thereafter are carried out under the same selection load as that in the step of mutant selection immediately therebefore.

9. A mutant of cell or organism individual where mutation is introduced into genomic DNA by any of the methods of claims 1 to 8.

10. A mutated gene which is isolated from the mutant of claim 9.